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40. The litter box of claim 39 wherein said waste receptacle includes first and second walls, said radiation source being located on said first wall, said detector being located on said second wall, such that waste at said predetermined level blocks radiation transmission between said radiation source and said detector.

41. The litter box of claim 27 further comprising a sensor system for determining whether a cat is in the litter chamber.

42. The litter box of claim 41 wherein said sensor system includes a source of radiation and a radiation detector.

24B47 43. The litter box of claim 33 wherein said comb drive is operated on a cyclical basis when said mode selector switch is in said manual operation position.

44. The litter box of claim 35 wherein said waste level sensor includes a source of radiation and a radiation detector.

45. The litter box of claim 44 wherein said source and said detector are located such that waste at said predetermined level is between said source and said detector.

46. A self-cleaning cat litter box comprising:

a housing defining a litter chamber to be filled to a fill level with cat litter, said housing having first and second ends, said litter chamber being located between said first and second ends; and

a device for engaging clumps in the litter, said device being coupled to the housing, said device being movable between a storage position and a discharge position, said storage position being located at said first end of said housing, said discharge position being located at said second end of said housing, and wherein said device projects into said litter chamber to a level